

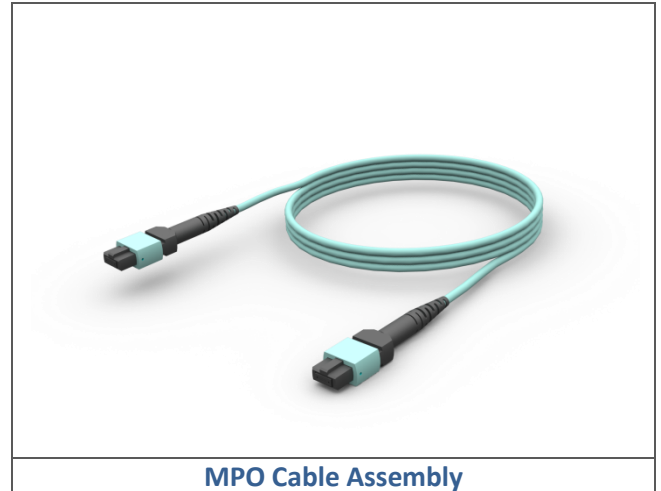
APPLICATION

MPO cable assemblies are made up of 12 fibres LSOH jacketed cables terminated at both ends in MPO connectors (without pins). They are used as backbone or horizontal cable interconnections between distribution racks.

The assemblies are available in a range of performance levels (OM3, OM4 or OS1 types) to suit the needs of the network.

FEATURES

- Cable manufactured with Bend Insensitive fibre.
- OM3, OM4 & Singlemode fibre available
- Suitable for up to 10G applications
- Superior Fire performance
- Quick & easy to install & maintain

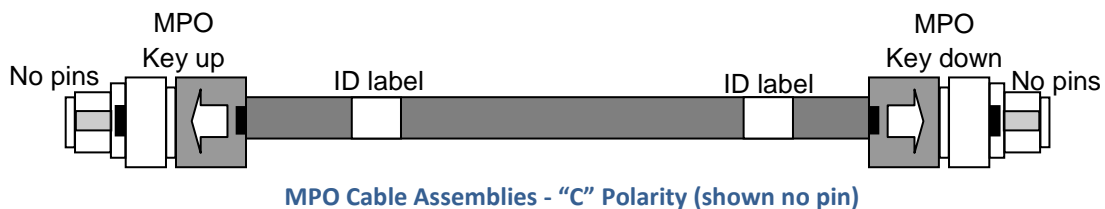


MPO Cable Assembly

EXAMPLE PART NUMBER

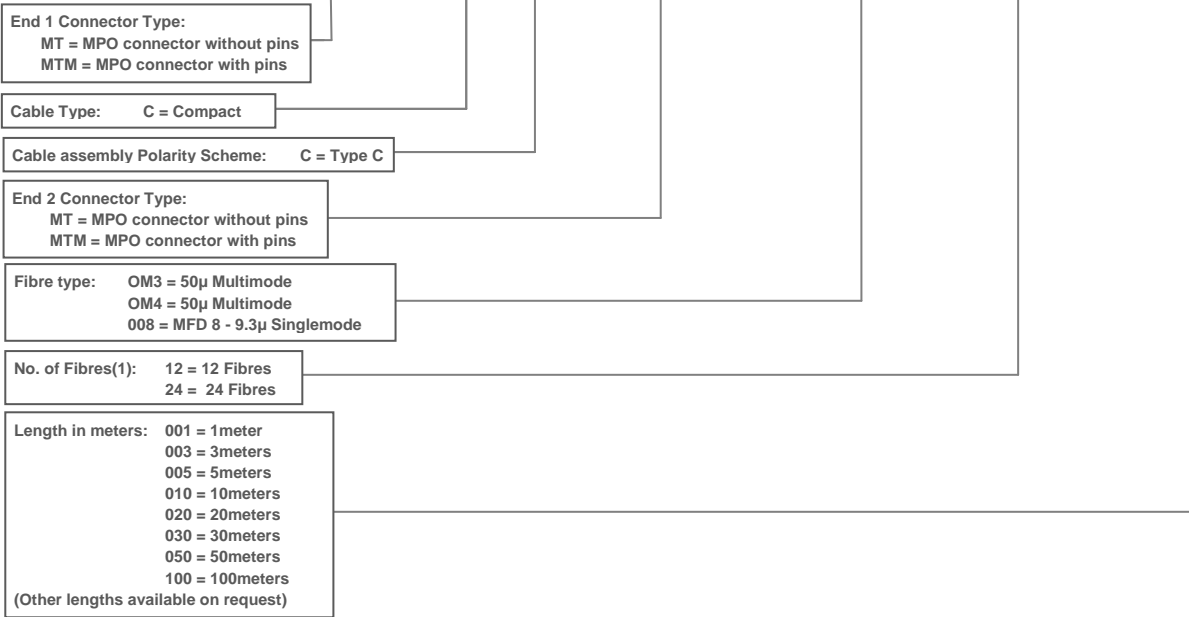
Brand-Rex Part Number	Item Description	Colour
MTCCMTOM312001	MPO (no pins) – MPO (no pins) cable assembly compact fibre, Method ‘C’ polarity, OM3 12 fibre, 1.0m long	Aqua
MTCCMTOM412030	MPO (no pins) – MPO (no pins) cable assembly compact fibre, Method ‘C’ polarity, OM4 12 fibre, 30.0m long	Heather Violet
MTCCMT00812005	MPO (no pins) – MPO (no pins) cable assembly compact fibre, Method ‘C’ polarity, OS1 12 fibre, 30.0m long	Yellow

PHYSICAL CHARACTERISTICS

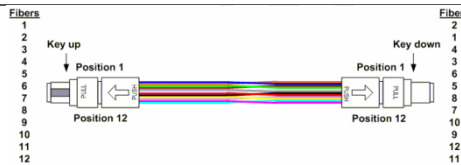


PART NUMBER BREAKDOWN

AAACCCBBBCCCDDEEE



POLARITY WIRING



Method C Polarity

COMPLIANCE

- EIA/TIA 568C .3 latest version
- ANSI/TIA/EIA-604-5C latest version
- BS EN 60332-3-24 latest version

STANDARDS

- Flammability (Cable): BS EN 60332-3-24:2009

ENVIRONMENTAL CONDITIONS

- Temperature Rating: 0°C to 70°C

MECHANICAL

- Minimum static bend radius : 12mm
- Minimum dynamic bend radius: 42mm
- Maximum tensile load : 100N
- Length Tolerance : ≤10m = -0/+0.2m,
 >10m = -0/+2%

PERFORMANCE

Cable Assemblies are designed and manufactured to conform to the requirements of the structured wiring cabling standards ISO/IEC 11801 latest amendments, EN 50173-1, TIA 568C series and the data centre cabling standards IEC 24764, EN 50173-5 and TIA 942.

Connector

Connector Type		Insertion Loss (dB)		Return Loss (dB)	
		Typical	Maximum	Typical	Minimum
Multimode	MPO ⁽¹⁾	0.35	0.75	25	20
Singlemode	MPO ⁽¹⁾	0.35	0.50	65	55

⁽¹⁾Angled Polish Face

Cable

Fibre Type & Cable Performance Grade	Wavelength (nm)	Maximum Attenuation (dB/km)	Typical Cable Attenuation (dB/km)
50/125 Multimode OM3 performance	850	3.5	2.6
	1300	1.5	0.6
50/125 Multimode OM4 performance	850	3.5	2.6
	1300	1.5	0.6
Singlemode performance	1310	0.4	0.3
	1383	0.4	0.3
	1550	0.4	0.2

*“Brand-Rex is **dedicated to designing, developing and manufacturing** sustainable **high performance** structured cabling and speciality **cabling solutions**”*

The information contained in this document is valid and correct at the time of issue. Brand-Rex reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.